Analysis Report about Amber Heard 2020 Reddit Contributions

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Introduction

Note: This report is a part of Case Study: "Reddit Social Network Analysis Against Influence Operation"

By analyzing accounts posting/commenting against a victim of a Social Bot Disinformation/Influence Operation.

We have four main datasets scraped from Reddit

- 1. A dataset with submissions & comments data (2020).
- 2. Users Data (from 2006 to 2020).
- 3. A merged dataset (submissions & comments data, users data).
- 4. Daily creation data (# of accounts created per day from 2006 to 2020).

The data Timezone is Epoch/UTC.

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Overview

- About 20% of 2020 contributions were made by
 - banned ¹(7.97% → 10235) .
 - unverified 2(13.3% → 17048).
- Abou **20% of 2020 submissions** were made by
 - banned (14.9% → 1175)
 - unverified (6.48% → 511).
- 22.17% of the peak day contributions (04/02/2020) were made by
 - banned (6.77% → 652).
 - unverified (15.4% → 1484).
- 20% of submissions of the peak day submissions (04/02/2020) were made by
 - banned accounts (14.9% → 1175).
 - unverified accounts (6.48% → 511).

Statistics of unverified accounts

Description of contributions scores

-	count ³	17043
-	mean	23
-	std	473.1
-	min	-113
-	25%	1
-	50%	2
-	75%	6
_	max	38903

- The percentage of 2020 contributions made by Unverified accounts 13.3%
- Total unverified accounts contributions in 2020 17048.
- Total unverified accounts comments in 2020 16537.
- Number of contributed users is 8481.
- The percentage of 2020 submissions made by Unverified accounts 6.48% with 511 submissions.
- rMemesMods has the least karma score.

Statistics of Banned accounts

- Description of contributions scores

-	count	10226
-	mean	29.98
-	std	548.53
-	min	-216
-	25%	1
-	50%	2
-	75%	6
-	max	368

¹ This user banned from reddit

² The user has not verified mail for this account.

³ Number of contributions of unverified accounts which have scores.

- The percentage of 2020 **contributions** made by **Banned** accounts **8%**
- Total banned accounts contributions in 2020 is 10235.
- Total banned accounts comments in 2020 is 3680.
- The percentage % of 2020 submissions made by Banned accounts 14.9%.
- Total banned accounts submissions in 2020 1175.

Top users statistics:

- Armpit-lover, this user made 20 contributions with the same text, 13 of them in one subreddit.
- rodrigohernandez4477 (banned), this user made 25 contributions with the same text in 25
 - 2020-12-05 (13) in 20 minutes.
 - 2020-11-28 (12) in 13 minutes.
- cracksniffer666 (banned)
 - This user's contributions got the highest scores.
 - the highest score is (36.8K)
 - (Since this user is banned, we have no user information)
 - This user made 99 contributions (98 comments and only one submission).
 - 89 contributions from 99 were made at (10 Feb 2020)!
- WouldYouKindley88 (banned)
 - These user contributions got the minimum scores.
- Agree-with-you
 - unverified account with the largest comment karma.
- rMemesMods (unverified)
 - This user's contributions got the lowest scores.
- Lucaswebb (unverified)
 - This user's contributions got the highest scores.

Statistics over years.

- 57.2% of 2020 contributions were made by newly created accounts (2018-2020).
- 88% of 2020 submissions were made by newly created accounts (2018-2020).
- 35% of the peak day contributions (04/02/2020) were made by newly created accounts (2018-2020).
- 65% of the peak day submissions (04/02/2020) were made by newly created accounts (2018-2020)

Year	Total contributions number	% of contributions made by this year of users ⁴	Total comments number	Total submission number	% of submissions made by this year of users
2018	13125	10.2%	12541	584	7.41%
2019	20104	15.7%	19056	1048	13.3%
2020	13722	10.7%	12726	996	12.6%

⁴ From accounts made in this year.

2020 accounts contributions scores

- count 128358
- mean 29.53
- std 704.11
- min -541
- 25% 1
- 50% 2
- 75% 6
- max 98525

Peaks

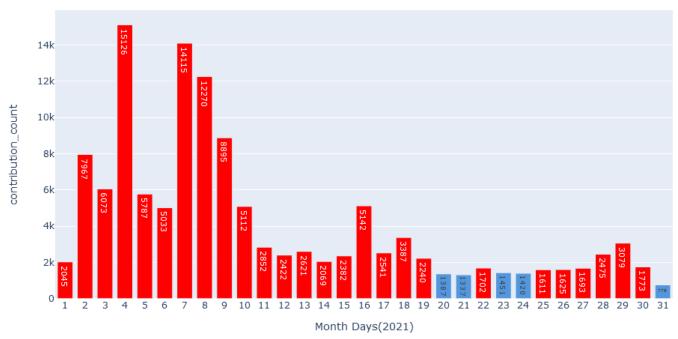
Peak Months





Peak Days of The Months⁵

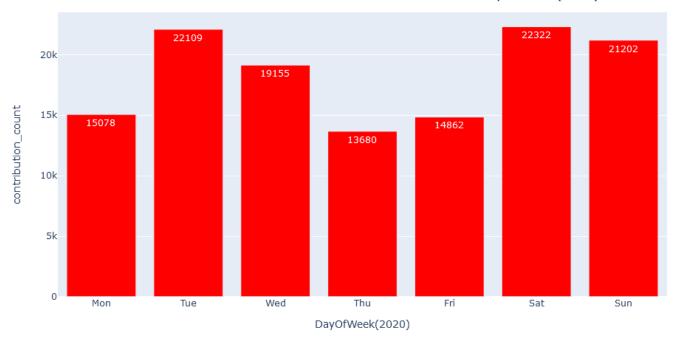
Estimation of the number contributions created in each DayOfMonth in 2020



⁵ Day of month means day 1 in all months, 2 in all months.. etc. (sum of all contributions on the same day of each month)

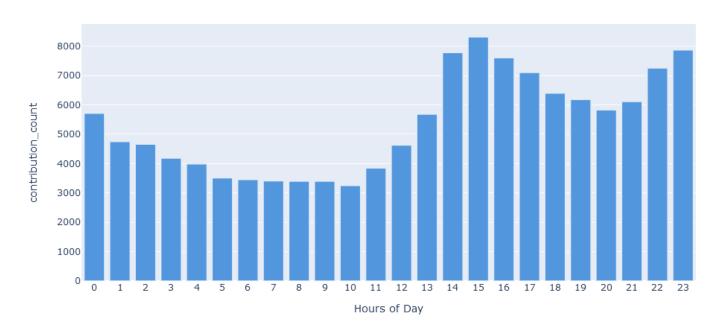
Peak Days of The Week





Peak Hours

Number of contrbutions Comment/Submission in day hours (2020)



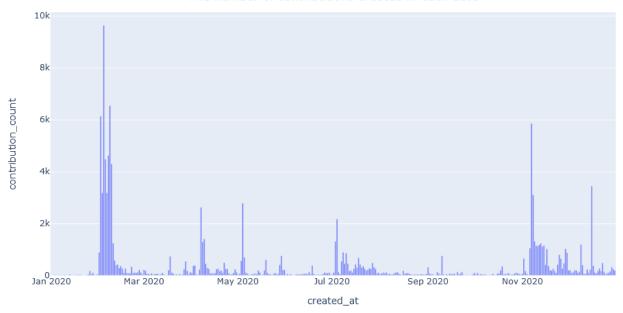
- It's weird to have high contributions all day!

Peak Dates

In this year the peak dates are:

2020-02-04	9630
2020-02-08	6540
2020-02-02	6138
2020-11-07	5852
2020-02-07	4618

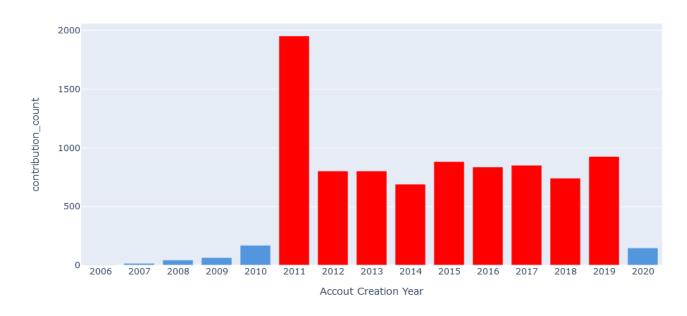
The number of contributions created in each date



- Feb 4,2020.

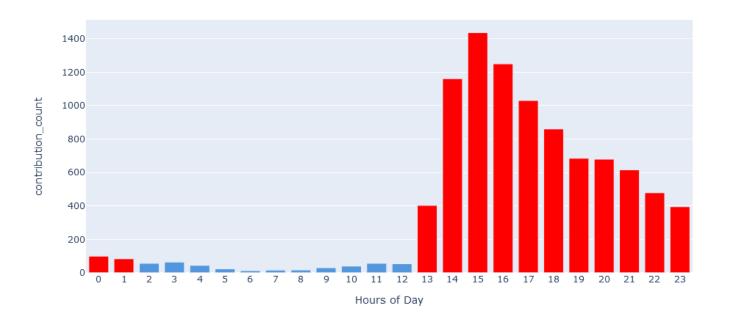
- 9630 contributions were made by 4752 users.

The creation year of the accounts contributed on the peak day (2020-02-04)



- The most active hours (13:1).

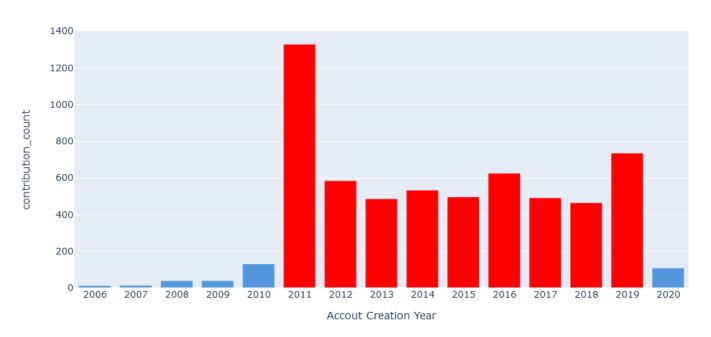
Number of contrbutions Comment/Submission in day hours



Feb 8,2020.

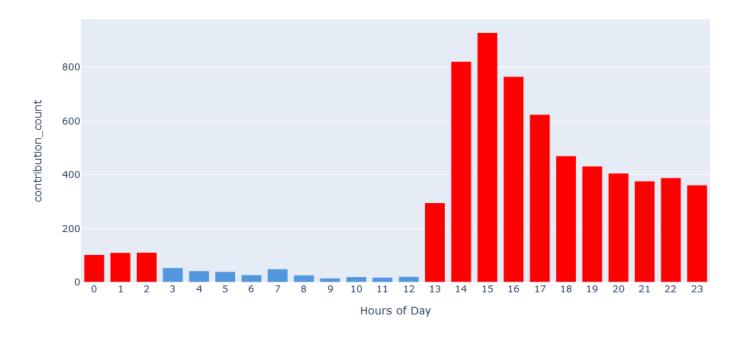
- 6540 contributions were made by 3442 users.

The creation year of the accounts contributed on the peak day (2020-02-08)



- The most active hours (13:2).

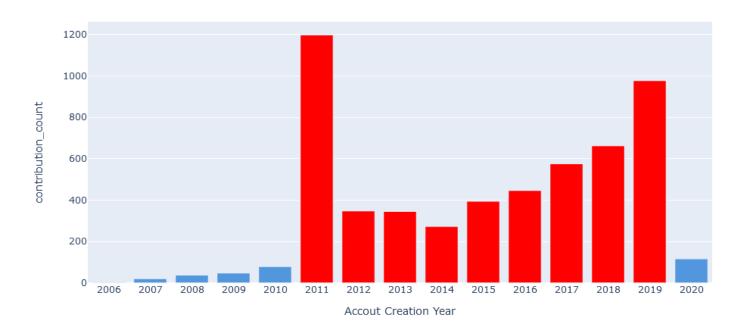
Number of contrbutions Comment/Submission in day hours



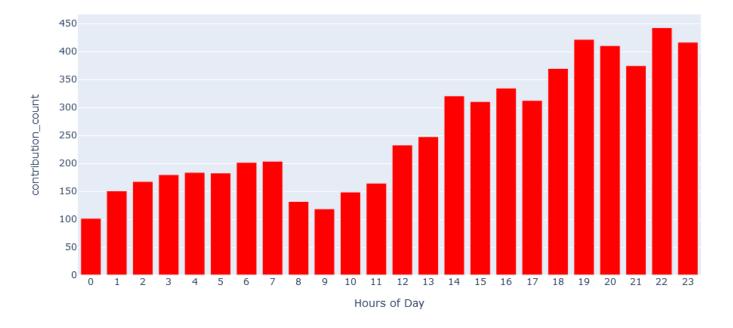
- Feb 2,2020.

- **6138 contributions** were made by **3145 users**.

The creation year of the accounts contributed on the peak day (2020-02-02)



Number of contrbutions Comment/Submission in day hours

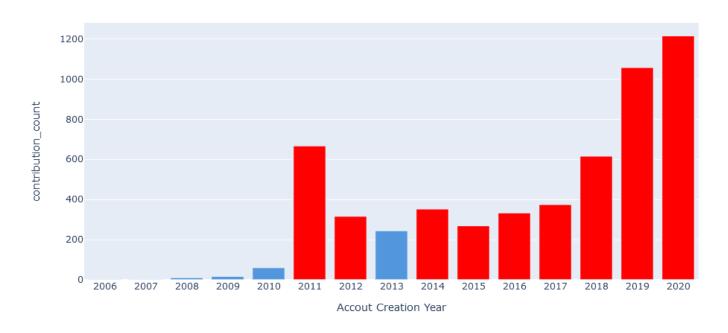


- All hours active?

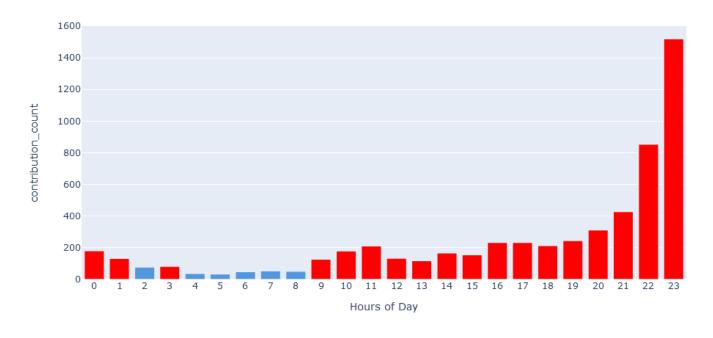
- Nov 7,2020.

- **5852 contributions** were made by **3550 users**.

The creation year of the accounts contributed on the peak day (2020-11-07)



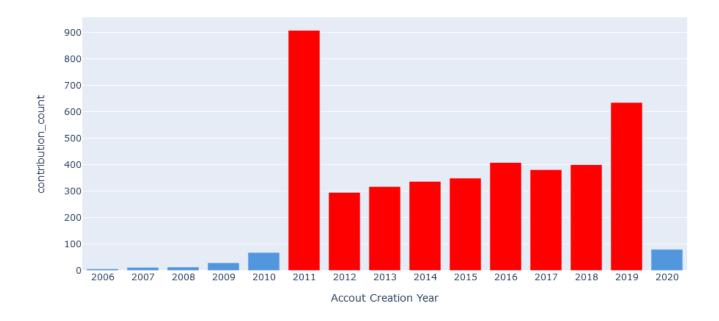
Number of contrbutions Comment/Submission in day hours



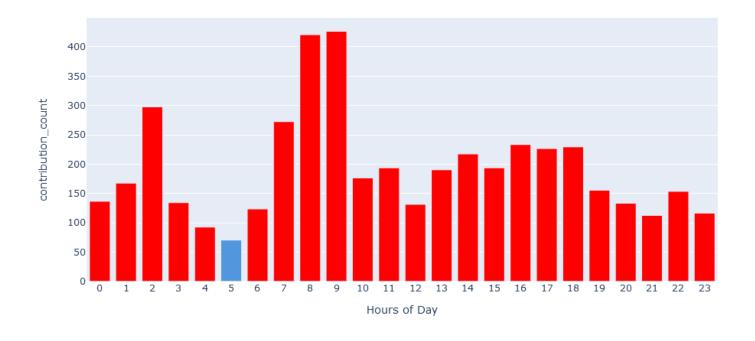
- Feb 7,2020.

- 4618 contributions were made by 2395 users.

The creation year of the accounts contributed on the peak day (2020-02-07)



Number of contrbutions Comment/Submission in day hours

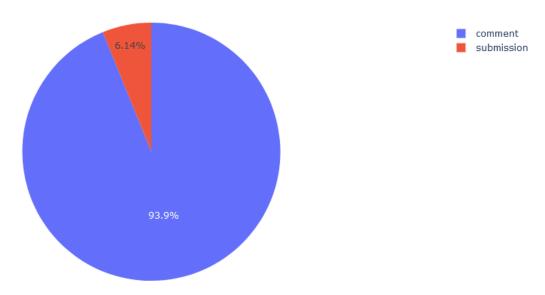


Exploratory Data Analysis

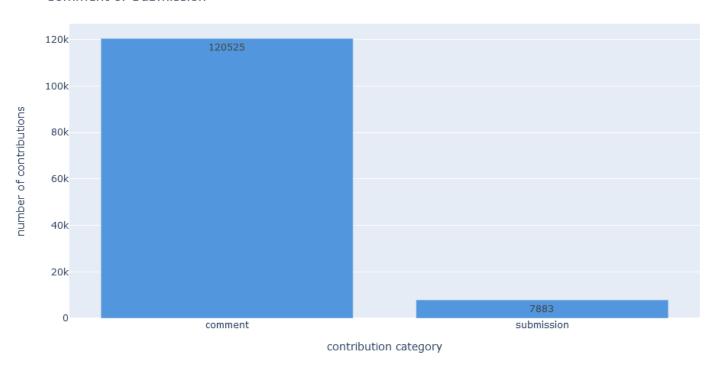
Reddit Contributions (Comments / Submissions)

The # of submissions VS the # of comments

Comment or Submission

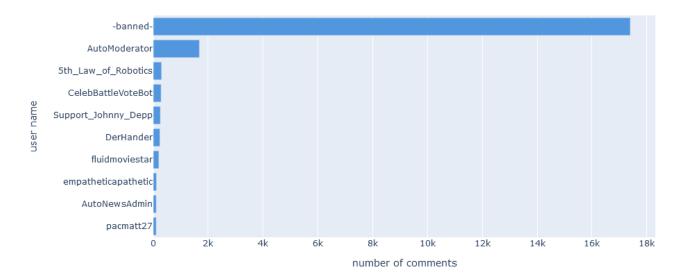


Comment or Submission



Most contributed user

Most commented user in 2020



Further Investigate The Most Commented Users In 2020

AutoModerator

AutoModerator is a system built into reddit that allows moderators to define "rules" (consisting of checks and actions) to be automatically applied to posts in their subreddit.

- Automoderator made 298 Contributions in 2020 on those subreddits:

-	r/JerkOffToCelebs	311
-	r/Celebhub	176
-	r/memes	169
-	r/OutOfTheLoop	135
-	r/unpopularopinion	100
-	r/AskReddit	99
-	r/iamatotalpieceofshit	66
-	r/DC_Cinematic	61
-	r/CelebBattleLeague	47
-	r/Drama	31

5th_Law_of_Robotics (Negative contributions)

5th_Law_of_Robotics made 298 Contributions in 2020 on those subreddits:

_		
-	r/videos	93
-	r/MensRights	34
-	r/Egalitarianism	31
-	r/iamatotalpieceofshit	30
-	r/LeftWingMaleAdvocates	29
-	r/SRSsucks	19
-	r/agedlikemilk	14
-	r/Toxic_Femininity	8
-	r/entertainment	8
-	r/meToo	7

Support_Johnny_Depp (Negative contributions)

- 5th_Law_of_Robotics made 256 Contributions in 2020 on those subreddits:

```
117
  r/entertainment
- r/MensRights
                           39

    r/pussypassdenied

                           32
                           27
- r/videos
  r/SupportForTheAccused 20

    r/todayilearned

                          11
- r/Petition
                            4
                            3
r/movies
- r/beauty
                            1

    r/JusticeServed

                            1
```

- Samples of contributions:

```
Johnny Depp & Amber Heard Abuse Claims: Australia's Bloody Aftermath! NEW UNCENSORED AUDIO!!

11

Johnny Depp & Amber Heard Case Update: Amber's Parents Sided With Johnny? - NEW TEXTS & EVIDENCE!! -

10

Sign the Petition: Remove Amber Heard as L'Oreal Spokesperson

8

Amber Heard & Friends: Constant Contradictions! With Friends Like These...

6

Johnny Depp & Amber Heard Abuse Claims: Amber "just lost it" so Johnny LOST A FINGER! NEW EVIDENCE!!
```

DerHander

It may be a bot which aims only to remain Amber Heard on trend, most contributions contain only her name.

- This user created at 2017
- Made 237 contributions in 2020 on those subreddits:

-	r/femcelebs	147
-	r/Blonde	21
-	r/celeb_blondes	21
-	r/FamousFaces	6
-	r/FamousBabes	6
-	r/cleavage	4
-	r/sexycelebs	4
-	r/legs	3
-	r/celeb_bellybutt	ons 3
-	r/CelebrityBelly	2

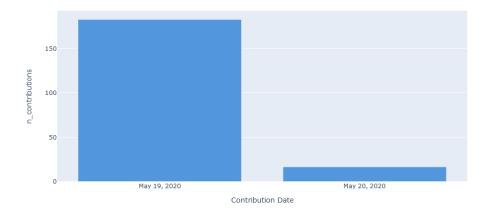
- 212 form 237 contains only "Amber Heard"

Fluidmoviestar

This account compares the Amber Heard case with Harvey Weinstein.

- This user created at 2015-04-30
- Made **200 contributions** in **2020** on this subreddit:
 - r/unpopularopinion 200
- All contributions are unique.

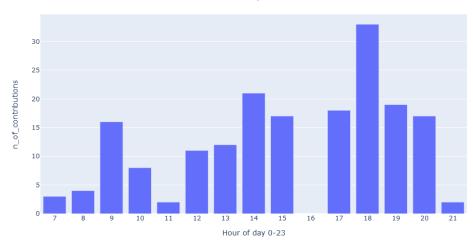
The number of "fluidmoviestar" contributions in 2020



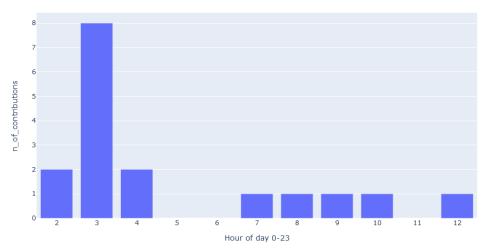
created_at		n_contributions
0	2020-05-19	183
1	2020-05-20	17

- 183 contributions in only 1 day and the rest in the next day?!

title='Number of Contribution in each hour of 19 may 2020 '



title='Number of Contribution in each hour of 20 may 2020 '



we can say that all contributions of this user were made in the same day as he started to contribute at 19 may at 7 AM and he continued till the next day morning, about 30 hours

The most recent news related to violence were last week as; – May 13: The court gives permission for Depp's former partners Vanessa Paradis and Winona Ryder – who both say Mr Depp was "never violent" to them – to give evidence. Heard's former personal assistant Kate James is also permitted to give evidence.

empatheticapathetic

Negative contributions

- Made 114 contributions in 2020 on those subreddits:

```
r/MensRights
                   63
r/iamatotalpieceofshit 14
r/WeinsteinEffect
                  14
                   7
r/awfuleverything
r/pussypassdenied
                      5
r/PussyPass
                   4
                    3
r/Toxic_Femininity
r/entertainment
                    2
r/PurplePillDebate
r/JusticeForJohnnyDepp
```

- All contributions are unique.

AutoNewsAdmin (News bot)

- This user was created on 2016-10-27.
- Made 107 contributions in 2020 on those subreddits:
 - r/GUARDIANauto 19
 r/INDEPENDENTauto 17
 r/BBCauto 11
 r/SCMPauto 10
 r/IOLauto 9
 r/CHICAGOTRIBauto 9
 r/SMHauto 7
 - r/TELEGRAPHauto 5
 - r/TORONTOSTARauto 4
 - r/IRISHTIMESauto 4
- Samples:

```
[World] - Johnny Depp threatened to kill me, Amber Heard tells court

[World] - Amber Heard denies fabricating injuries after Johnny Depp allegedly threw phone at her

[UK] - Johnny Depp libel trial: Amber Heard says reliving break-up was 'incredibly painful'

[UK] - Johnny Depp accused me of having affair with 'pumpkin-head' Leonardo DiCaprio, claims Amber Heard

[UK] - Amber Heard tells jury of mashed potato on door and 'blood everywhere' after alleged drink-drug rampage by Johnny De

pp 1
```

pacmatt27

AntiFeminism

- Made 104 contributions in 2020 on one subreddit:
 - r/MensRights 104
- Sample:

```
Please do.
2
Just curious how you can identify with a movement which has essentially become a hate group?
2
```

Negative contributions

Made 104 contributions in 2020 on those subreddits:

```
r/entertainment
                  25
r/videos
               20
r/WeinsteinEffect 19
                   7
r/AskWomen
r/television
r/unpopularopinion
r/NoStupidQuestions
r/harrypotter
                2
r/meToo
r/CaptainSparrowmemes
```

All contributions are unique.

Check whether the users with the most contributions are mod⁶, gold⁷ or having a verified email

- A list with most 24 contributed authors was made.
- Checked for the most negative comments users.
- The most negatively commented users are (AutoModerator and faithle55).
- Those are the characteristics of the 24 users:

```
- has verified email
     - True
     - False 3
  is mod
     - False
              18
     - True
  is_gold
       False
     - True
  is banned
     - False
                20
     - True
  Comment karma
     - Min \rightarrow - 10
```

- Max \rightarrow 52848
- Mean \rightarrow 3940.28
- Median \rightarrow 24
- Link karma

- Min \rightarrow 2

- $Max \rightarrow 1870964$

- Mean \rightarrow 218104.72

- Median \rightarrow 12119.5

⁶ Moderator: A moderator is just a regular redditor like you except with a few humble duties within a particular community

⁷ <u>Gold</u> Reddit Gold was a premium membership, which allowed Reddit users a variety of additional features.

- Banned unverified

- others
- banned 4
- unverified 3

Creation_year

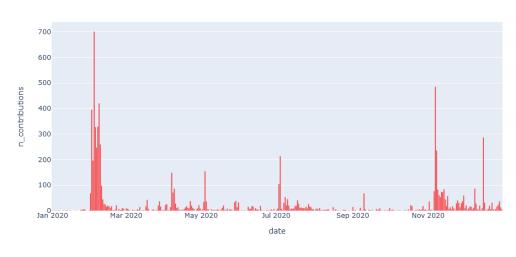
-	others	12
_	2019	5
_	banned	4
-	2018	2
_	2020	1

Investigate the text column

Lets first check for the users using the word 'f*ck'

- This word is repeated 8468 times.
- 6.59% of contributions contain this word.
- Authors of these submissions having the same submission text "f*ck amber heard" are 52 users.
- The authors of these submissions have the same submission text (contains f*ck) 235.





	date	n_contributions
0	2020-02-04	701
1	2020-11-07	486
2	2020-02-08	421
3	2020-02-02	396
4	2020-02-07	330
325	2020-03-16	1
326	2020-06-02	1
327	2020-01-02	1
328	2020-06-01	1
329	2020-10-08	1

330 rows × 2 columns

- Top Authors:

-	-banned-	929
-	cracksniffer666	20
-	pacmatt27	19
-	AutoModerator	17
-	myIDateyourEGO	15
-	king_of_red_alphas	13
-	OTHEWHITERABBIT	12
-	Ryggg95	12
-	FuckCoolDownBot2	12
_	TheWizardChrist	11

Comment or submission:

-	comment	8130
_	submission	338

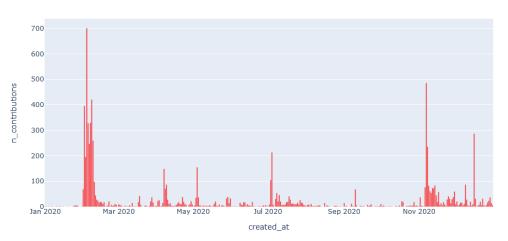
Top subreddits

-	r/videos	1797
-	r/awfuleverything	598
_	r/entertainment	554
-	r/MensRights	525
-	r/pussypassdenied	522
-	r/JerkOffToCelebs	399
-	r/memes	351
-	r/iamatotalpieceofshit	350
-	r/TrueOffMyChest	193
-	r/AskReddit	146

created_at n_contributions

		created_at	ii_contributions
	21	2020-02-04	701
2	75	2020-11-07	486
	25	2020-02-08	421
	19	2020-02-02	396
	24	2020-02-07	330
	22	2020-02-05	328
3	14	2020-12-16	287
	26	2020-02-09	260
	23	2020-02-06	247
2	76	2020-11-08	236

The number of "F*CK" contributions in 2020



Top user who contributed with this word more investigation

cracksniffer666:

- used the word f*ck 20 times
- Negative Comments
- Has 99 contributions, 89 of them in only one day.
- 13 contributions made in 10-02-202 contains f*ck word.

	created_at	n_contributions
0	2020-02-09	1
1	2020-02-10	89
2	2020-07-03	6
3	2020-07-04	3

The number of "cracksniffer666" contributions in 2020



- Samples of submission of this user:

Amber Heard, preparing to frame Johnny Depp, 2017

She cut off his finger, shit in his bed, and would paint bruises on herself to claim abuse from him. A piece of shit. Soc iety is still defending her also.

Explain

That's pathetic

Username checks out. No. No we can't.

Yeah haha

The media is still praising her. Don't believe what you hear. There's still people defending her also. Listen to the ther apy tapes... That's all I'll tell you

Preach.

You're a misogynist for thinking she should be treated as a man would. What world do you live in? EQUALITY.

Yeah, search anywhere for like 5 mins

Username checks out, once again. Women are more than 5 times more likely to defend and protect women, no matter the cost, what the woman did, etc. Here's an actual study for you! https://www.apa.org/monitor/dec04/women
Yeah, we have to work sex into it somehow, I forgot reddit obsessed about mating... lol jesus.. Get a hobby

Yeah, we have to work sex into it somehow, I forgot reddit obsessed about mating... lol jesus.. Get a hobby google her name. Simply.

pacmatt27:

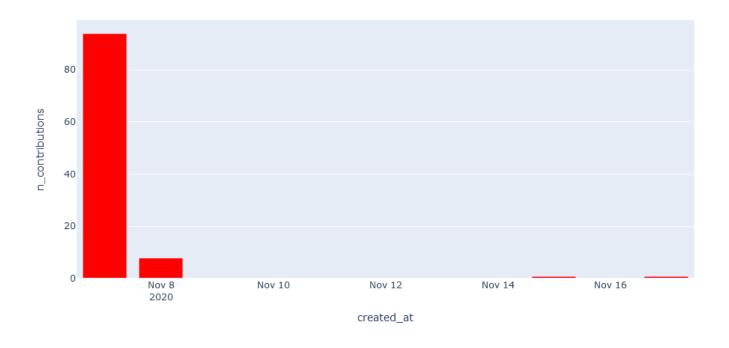
- used the word f*ck 19 times
- Negative Comments
- Has 104 contributions, 94 of them in only one day.
- Created at:2014-02-08.

	created_at	n_contributions
0	2020-11-07	94
1	2020-11-08	8
2	2020-11-15	1
3	2020-11-17	1

	user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
12865	pacmatt27	True	False	False	False	36552.0	1632.0	2014-02-08 15:05:44	others	others

- used the word f*ck in 12 negative comments in NOV 7 2020.

The number of "pacmatt27" contributions in 2020



Check for the repeated text

[deleted]
3800
[removed]
1534
Amber Heard
958
Make sure to follow our community guidelines.\n\n**[Get user flair](https://redd.it/e0a4mn) and check out our [Instagram page](https://www.instagram.com/celebtag) for more celebrity content!**\n\n\n*I am a bot, and this action was performed a utomatically. Please [contact the moderators of this subreddit](/message/compose/?to=/r/Celebhub) if you have any question or concerns.*
143
Rule 9 overused. No Johny Depp or Amber Heard memes at this time\n\n*I am a bot, and this action was performed automatically. Please [contact the moderators of this subreddit](/message/compose/?to=/r/memes) if you have any questions or concerns.*
105

- Most contributions were deleted or removed.
- The other contributions have 'Amber Heard' which is logical.
- Also mods removed a lot of contributions as they hadn't followed the rules.
- a lot of announcements so that we can expect bots.
- "Amber Turd" is repeated 72 Times!!
- "Fuck Amber Heard" repeated 62 Times and 30 also after normalization (more than 100 times)!!
- "Amber Heard bad" repeated more than 24 Times!!

F*ck amber heard or F*ck Amber Heard

- 413 contributions (274 comments and 139 submissions) on those subreddits:

- r/memes 77

- r/awfuleverything 32

r/videos 22

- r/iamatotalpieceofshit 22

- r/dankmemes 20

- ...

From those authors:

- -banned- 82

- lobofett12 7

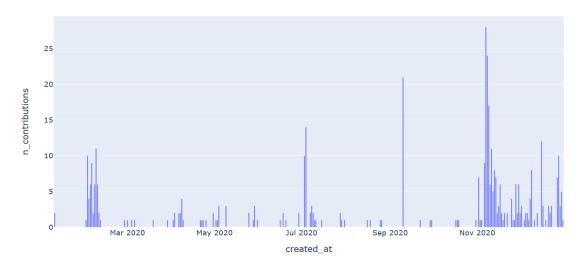
- SlimandNone 3

- flightfight1 3

- Sociopathic-Panda 3

- ...

The number of "F*ck Amber Heard" contributions in 2021



amber heard bad

- 103 contributions
 - submission 91
 - comment 12

in those subreddits:

- In thosrr/memes 51
- r/dankmemes 15
- r/redditmoment 7
- r/circlejerk 5
- r/teenagers 2
- r/CaptainSparrowmemes 2
- r/Amber_Heard 2
- r/MensRights 2

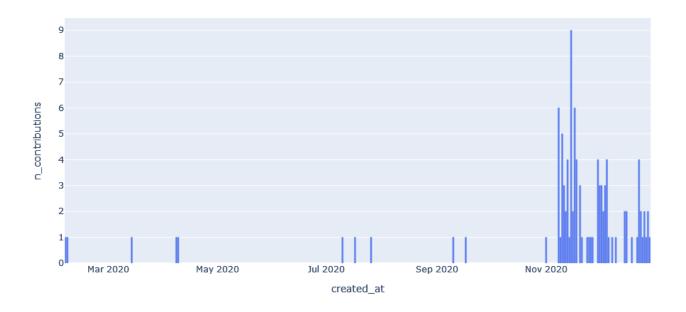
- ...

From those users

- banned- 35
- lobofett12 2
- Jozilla12 2
- Apple20674 2
- Shaved_Bears 2

- ..

The number of "Amber Heard Bad" contributions in 2021



Amber Turd

- 429 contributions
 - comment 418
 - submission 11

in those subreddits:

r/memes 44r/MensRights 29r/celebnsfw 22r/entertainment 20

- r/pussypassdenied 19

- ..

From those users

- -banned- 38

- SquidAndCheese 12

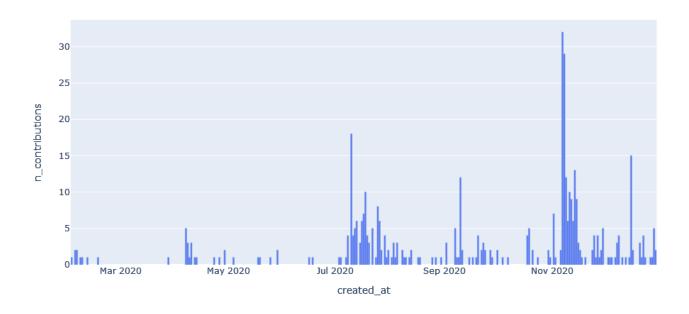
- Nayr747 5

- Jaya_shanka 4

- ginozilla1985 4

- ..

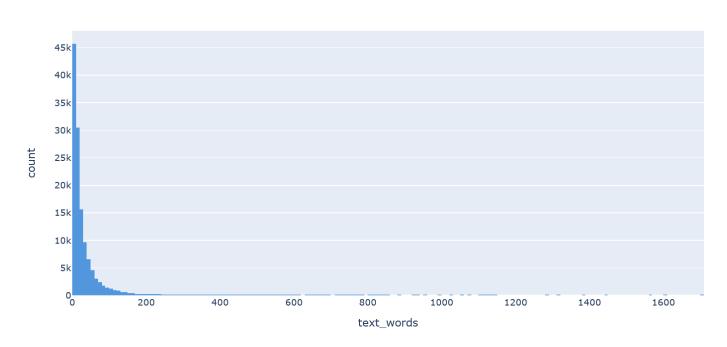
The number of "Amber Turd" contributions in 2020



Check the number of text words

Of course few words are easier for bots to create.

number of words in each contribution



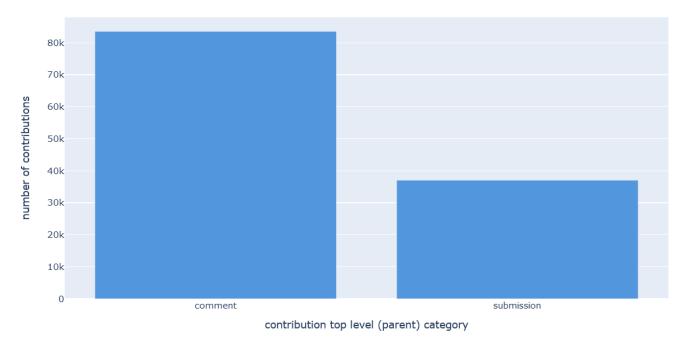
Text_words (number of words: number of contributions contains this number of words)

- 1: 10206
- 5: 4789
- 6: 4723
- 4: 4461
- 7: 4458
- ...

Reddit Comments

The number of parent comments on submissions

Comment or Submission (Top Level of Contrbution "Parent")



-This means that we have about 83K parent comments on submissions (not replies).

Reddit Submissions

Investigating the Submission Text (Submissions with the most comments and replies)

- We can get the number of different submissions by looking only at the submissions data. also we can look at submission_text with the most interactions (repeated submission_text)
- This could be either submissions with more comments and replies, or different submissions with the same text, we cannot know for sure.

$Audio_of_amber_heard_admitting_she_was_the_one$

- 10 submissions.
 - From those users:

	user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
3767	redditchao999	True	True	False	False	32903.0	7543.0	2011-10-30 02:01:08	others	others
5918	snoogins355	True	False	False	False	238857.0	19722.0	2012-05-27 13:57:43	others	others
18703	xool420	True	False	False	False	89122.0	94801.0	2015-06-25 13:49:35	others	others
50576	KindlyOlPornographer	True	False	False	False	157950.0	92848.0	2019-07-27 01:15:02	others	2019
52089	yespineapplebacon	True	False	False	False	1821.0	21692.0	2019-09-10 20:07:38	others	2019
57013	poop4456	False	False	False	False	130.0	138.0	2020-02-04 17:44:20	unverified	2020
67607	waifulvr94	True	True	True	True	NaN	NaN	NaT	banned	banned

- In those subreddits:
 - r/videos
 - r/MensRights
 - r/TwoXChromosomes
 - r/Feminism
 - r/blankies
 - r/BillBurr
 - r/movies
 - r/Feminism
 - r/MensRights
 - r/videos

Those submissions contain 9562 comments.

The number of contributions/date on these submissions



The number of contributions per author on these submissions



	author	n_contributions
8	-banned-	1218
4582	waitingtodiesoon	46
461	ClementineCarson	45
3348	gorgossia	34
1264	KindlyOlPornographer	30
1854	QwertyBoi321	1
1855	R-Van	1
1856	R4K1B-	1
1857	R4nd0m235689	1
2354	The Billy Dee	1

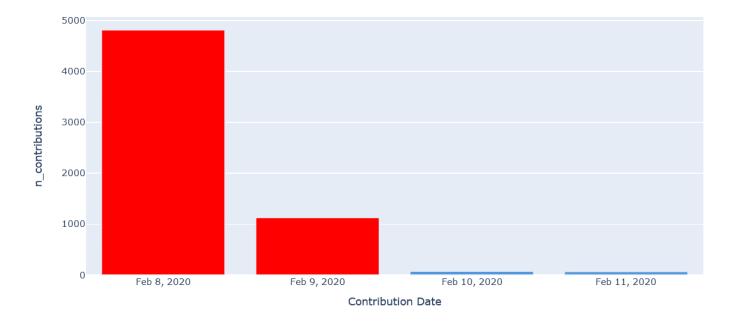
Johnny_depp_amber_heard_new_unsensored_audio

- 6 Different Submissions.
- all posts have the same video.
- those submissions were archived
- From those users:

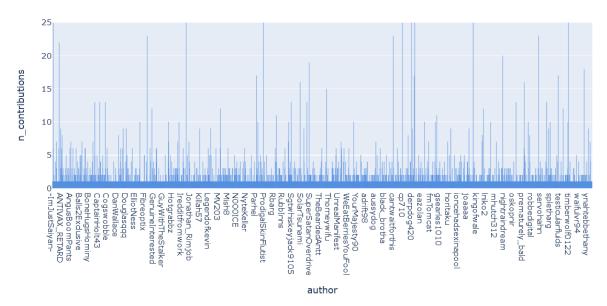
	user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
13464	Ethernetbabe	True	True	False	False	24276.0	95091.0	2014-04-05 13:36:07	others	others
39549	Alexexec	True	True	False	False	43154.0	5363.0	2018-08-27 07:43:54	others	2018
49304	HWGA_Gallifrey	False	False	False	False	74419.0	928.0	2019-06-17 00:09:27	unverified	2019
49870	EpixBubble	True	True	False	False	1196.0	13592.0	2019-07-05 12:02:43	others	2019
67607	waifulvr94	True	True	True	True	NaN	NaN	NaT	banned	banned

- Those submissions have 6218 comments.

The number of contributions/date on these submissions



The number of contributions per author on these submissions

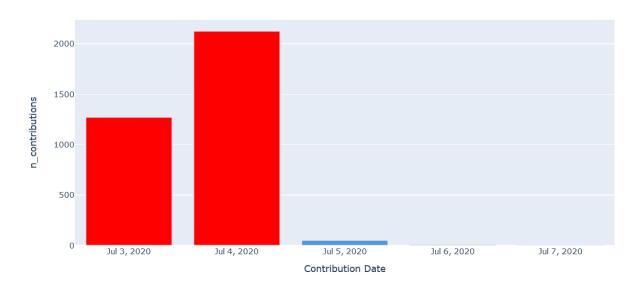


	author	n_contributions
5	-banned-	823
2009	controlandr3sistanc3	80
1212	PraiseSatsuki	64
2063	demonicneon	51
768	JagTror	36
1177	Pengroves	1
1178	Penla	1
1181	PerfectZeong	1
1182	Petdogdavid1	1
3099	zyzzogeton	1

jand_he_lost_his_job_after_all_of_this_fuck_amber

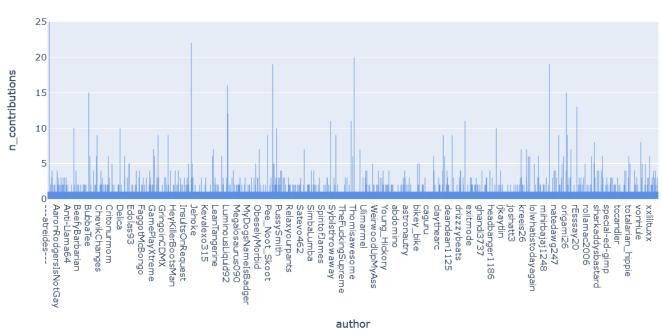
- 5submissions.
 - From those users ('-banned-', 'beanzzzzzzzzss', 'koppleberg', 'Ford456fgfd', 'Ford456fgfd').
- https://www.reddit.com/r/awfuleverything/comments/hkp7lo/and_he_lost_his_job_after_all_of_this_f
 uck_amber/
- It's sensitive content related to the cut finger
- Those submissions have 3568 contributions.

The number of contributions/date on these submissions



- Those contributions were in 3 and 4 July

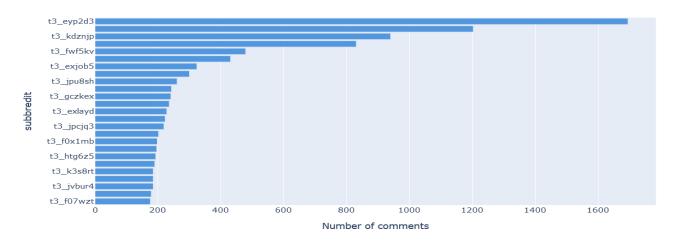
The number of contributions per author on these submissions



Investigating the submissions with most comments(Top Level Comments)

- t3_eyp2d3 1695
- t3_f0q0ao 1203
- t3_kdznjp 940
- t3_hkp7lo 831
- t3_fwf5kv 479

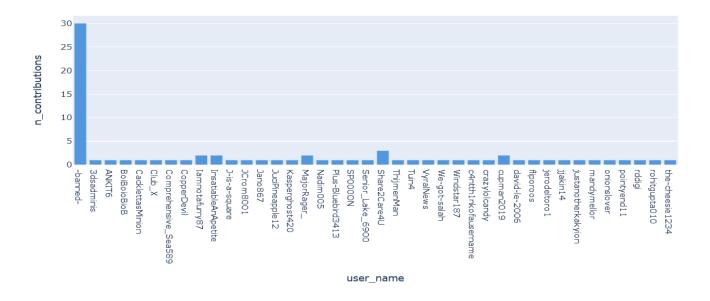
sumbissions with most comments (Top Level Comments)



Check the top 5 submissions in 2020

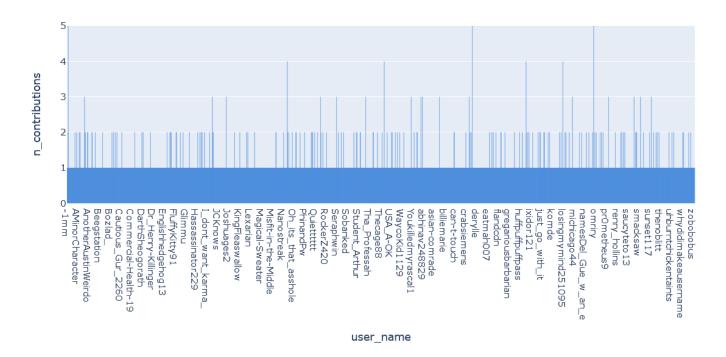
- And he lost his job after all of this. Fuck Amber Heard.
- Audio of Amber Heard admitting she was the one who was abusive towards Johnny Depp.
- Amber Heard Could Face 3 Years Of Imprisonment If Found Guilty Of Faking Evidence
- Johnny Depp & Amber Heard: NEW Unsensored Audio Amber tells Depp nobody will believe him, and also admit to drawing wounds on erself with makeup and taking pictures of them for proof.
- Amber Heard hired for \$33,000 per talk in domestic abuse, despite evidence suggesting she herself is a domestic abuser.

The number comments per author on these submissions



Check the authors of parent comments

The number of parent comments per author on these submissions



Investigating authors with the most submissions

Investigate authors with the most submissions

- -banned- 2571

Support_Johnny_Depp 250

- DerHander 218

- AutoNewsAdmin 105

- toutfilm 95

AutoNewspaperAdmin 71

- newsfeedmedia 62

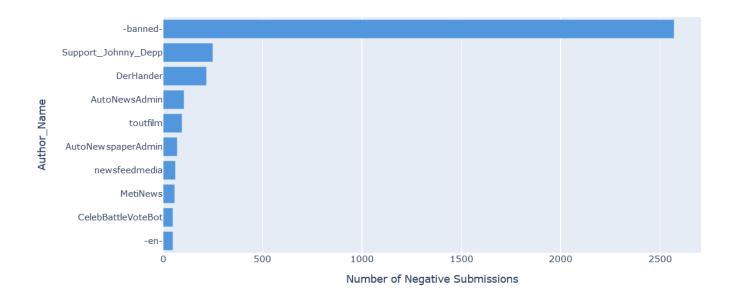
MetiNews 58

- CelebBattleVoteBot 49

- -en- 49

	author
-banned-	2571
Support_Johnny_Depp	250
DerHander	218
AutoNewsAdmin	105
toutfilm	95
AutoNewspaperAdmin	71
newsfeedmedia	62
MetiNews	58
CelebBattleVoteBot	49
-en-	49

Authors with most Submissions



Check whether the users with the most submissions are mod, gold or having a verified email

- -banned- 2571
- Support_Johnny_Depp 250
- DerHander 218
- AutoNewsAdmin 105
- toutfilm 95

most negative-comments users

	user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
13888	Dannig178	True	True	True	False	2765.0	982410.0	2014-05-14 14:35:40	others	others
16745	TheAndredal	True	True	True	False	52848.0	1870964.0	2015-01-10 04:20:02	others	others

- The value counts of the users with the most submissions: has_verified_email
 - True 23
 - False 1
- The value counts of the users with the most submissions: is_mod
 - True 22
 - False 2
- The value counts of the users with the most submissions: is_gold
 - False 15
 - True 9
- The value counts of the users with the most submissions: is_banned
 - False 18
 - True 6
- comment_karma
 - Min -10.0
 Max 52848
 Mean 3940.28
 Median 24

- The value counts of the users with the most submissions: link_karma

Min 2
 Max 1870964
 Mean 218104.7
 Median 12119.5

- The value counts of the users with the most submissions: banned_unverified

others 17 banned 6 unverified 1

The value counts of the users with the most submissions: creation_year

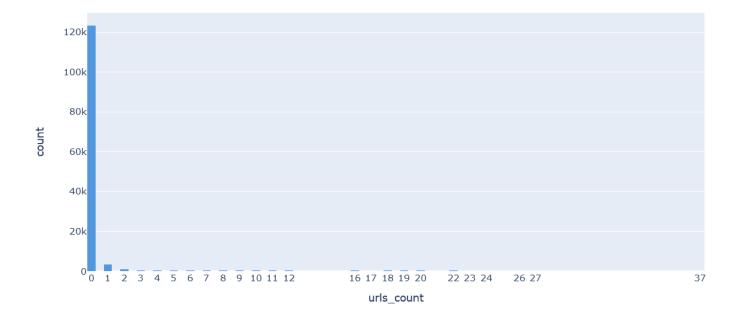
- others 10 - banned 6 - 2019 3 - 2018 3 - 2020 2

Submission URLS

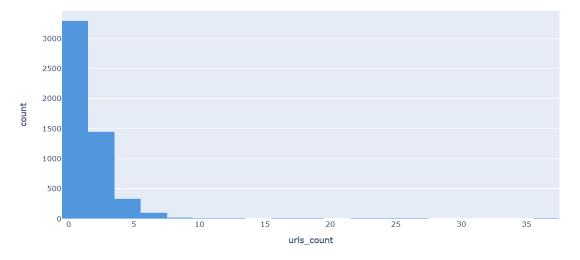
- 1086 url.

[]	123195
['https://www.reddit.com']	470
['https://youtu.be']	342
['https://www.youtube.com']	197
['http://chng.it']	190

Count of the number of URLS in each Contribution

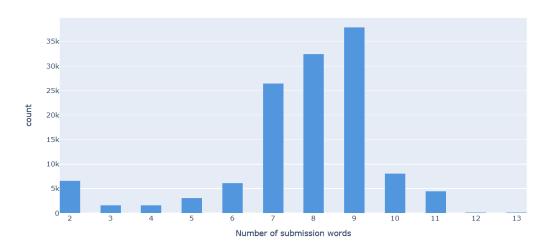


Count of the number of URLS in each Contribution



Check the number of submission text words

number of words in submission text



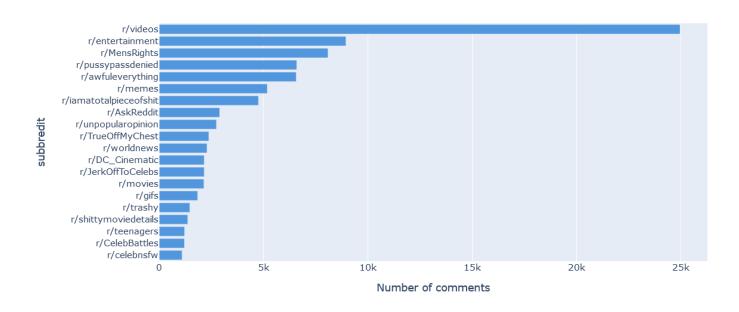
Subreddits

Most used Subreddits

- 1164 unique subreddits.

	index	subreddit
0	r/videos	24955
1	r/entertainment	8945
2	r/MensRights	8087
3	r/pussypassdenied	6589
4	r/awfuleverything	6563
5	r/memes	5181
6	r/iamatotalpieceofshit	4757
7	r/AskReddit	2898
8	r/unpopularopinion	2741
9	r/TrueOffMyChest	2378

Most used subbredits

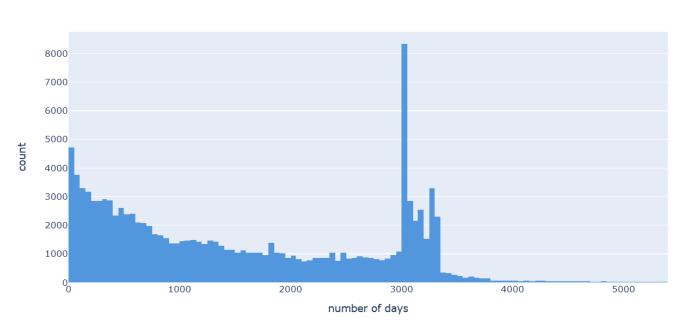


Merged Users Data with Comments/Submissions Data

Difference in time between creating the account and posting

- 3011.0 1277
- 3009.0 862
- 3015.0 838
- 3014.0 719
- 3013.0 708
- _

days_after_creation

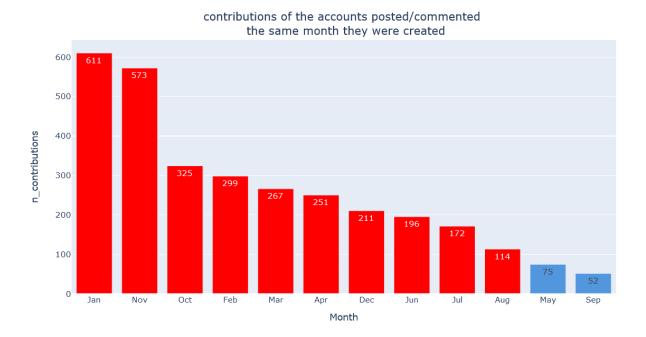


Posting Duration After Account Creation

- The number of accounts posted the same ⁸day they were created was **360.**
- The number of accounts posted the same week they were created was 1209.
- The number of accounts posted the same **month** they were created was **3146.**
- we can find that 3139 accounts created and posted within the same month in 2020 and only 7 in 2019.

More investigations

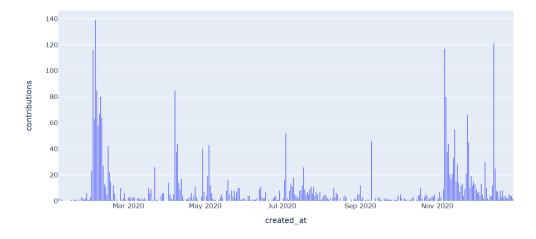
Same Month



- Jan 611
- Nov 573
- Oct 325
- Feb 299
- Mar 267
- Apt 251
- Dec 211
- Jun 196
- Jul 172
- Aug 114
- May 75
- Sep

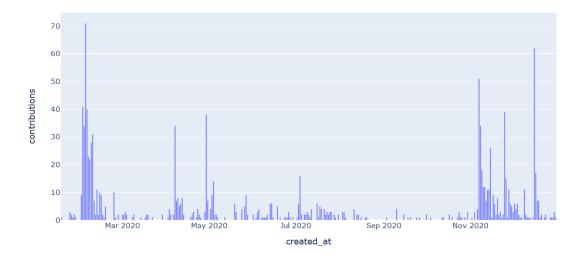
⁸ Making a contribution

contributions of the accounts posted/commented the same month they were created



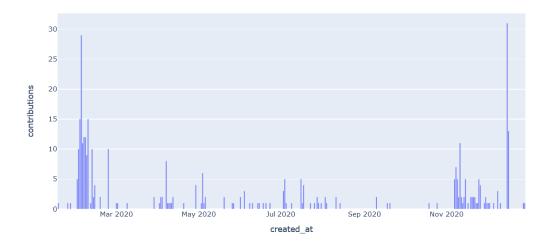
Same week

contributions of the accounts posted/commented the same week they were created

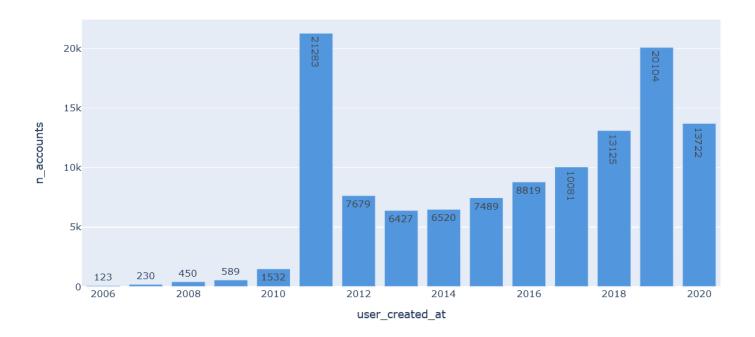


Same day

contributions of the accounts posted/commented the same day they were created



Number of User Accounts Created in each year / having contributions in 2020



Banned Unverified accounts

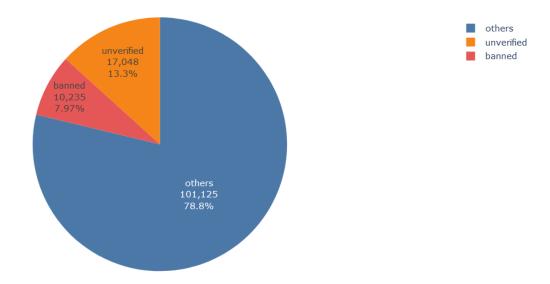
- We have 10235 contributions in 2020 from banned accounts (3680 users).
- We have 17048 contributions in 2020 from unverified accounts (8481 users).
- 24360 users were made in 2018, 2019, and 2020 and contributed in 2020.
 - 6865 users were created in 2018 and made 13125 contributions in 2020.
 - 10084 users were created in 2018 and made 20104 contributions in 2020.
 - 7411 users were created in 2018 and made 13722 contributions in 2020.

Contributions

banned_unverified

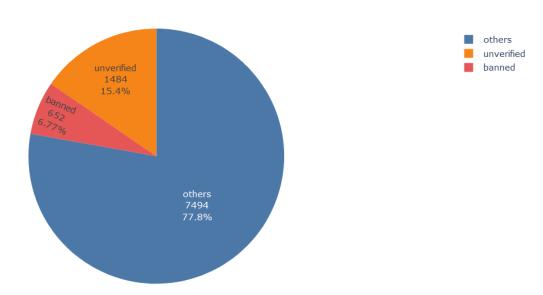
others	101125
unverified	17048
banned	10235

Contributions of banned / unverified /others in 2020



Peak Day Contributions

Contributions of banned / unverified /others on the peak day (2020-02-04)



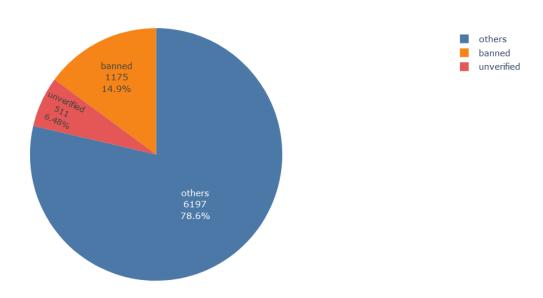
NOTE: 22.17% of peak day contributions were made by banned accounts and accounts with unverified email address

Submissions

banned_unverified

others	6197
banned	1175
unverified	511

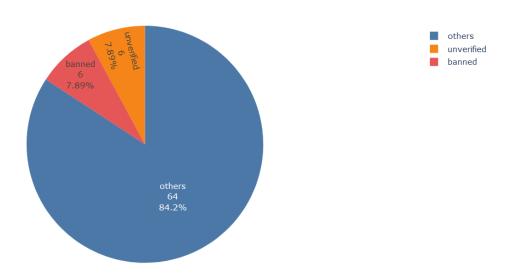
Submissions of banned / unverified /others in 2020



NOTE: About 20% of 2020 submissions were made by banned and unverified accounts.

Peak Day Submissions

Submissions of banned / unverified /others on the peak day (2020-02-04)



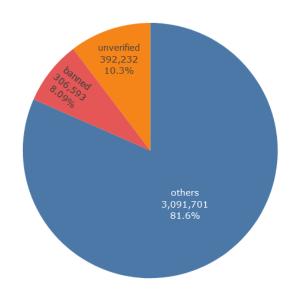
Total Scores

score

banned_unverified

banned	306593.0
others	3091701.0
unverified	392232.0

Total Scores of banned / unverified /others in 2020



Average Scores per contribution

- avg_score = df_scores_relativ.score / df_scores_relative.n_contributions

averaage_score

banned_unverified

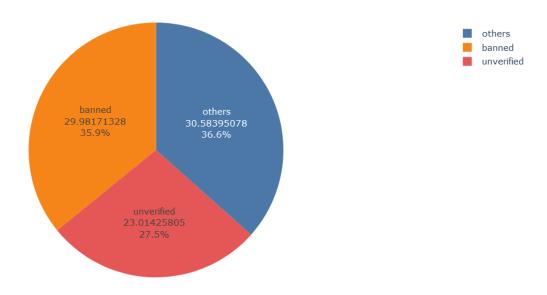
banned	29.981713
others	30.583951
unverified	23.014258

others

unverified

banned

Average Scores of banned / unverified /others in 2020



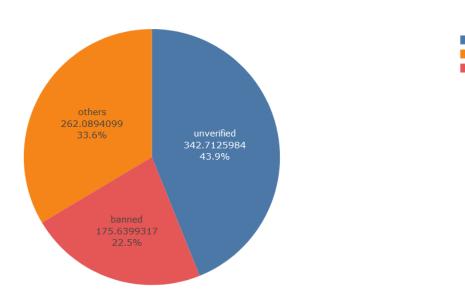
Average Scores per submission

score

banned_unverified

banned	175.639932
others	262.089410
unverified	342.712598

Average Scores of sumbmissions banned / unverified /others in 2020



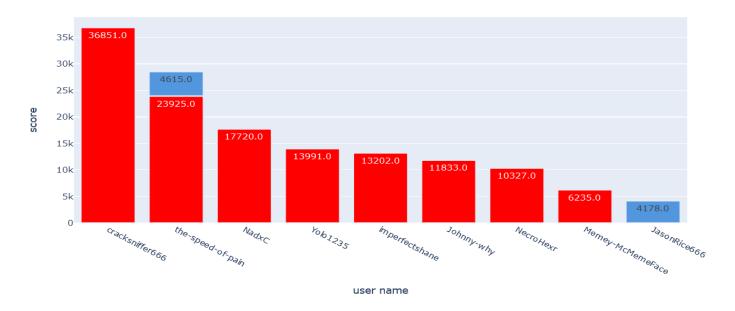
unverified others banned

Banned Accounts

Banned-Accounts largest scores

-	count	10226
-	mean	29.98
-	std	548.53
-	min	-216
-	25%	1
-	50%	2
-	75%	6
-	max	36851

Banned accounts highest contribution scores



NOTE: "cracksniffer666": this user contributions got the hieghest scores.

Cracksniffer666

- This user made 98 comments, and one submission.

	created_at	n_contributions
0	2020-02-09	1
1	2020-02-10	89
2	2020-07-03	6
3	2020-07-04	3

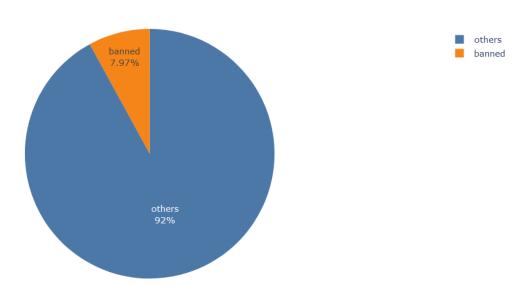
Banned-Accounts minimum scores



WouldYouKindley88 made 37 comments, all negative.

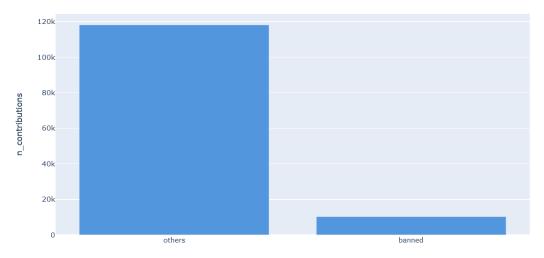
Contributions of Banned accounts in 2020

Contributions of Banned accounts in 2020



- The percentage % of 2020 contributions made by Banned accounts: **7.97**
- Total banned accounts contributions in 2020: 10235
- Total banned accounts comments in 2020: 9060

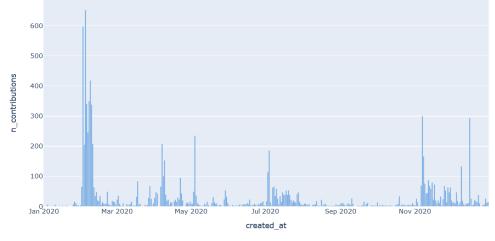
Contributions of Banned accounts in 2020



Banned Accounts Contributions Peaks

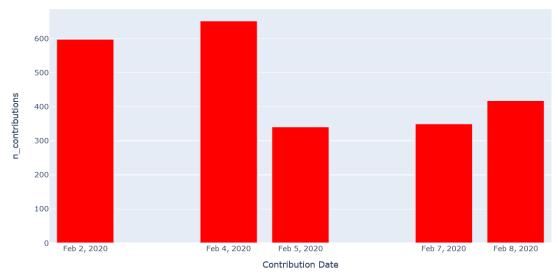
Which dates had the highest contributions of banned users?

The number of banned users contributions created on each date



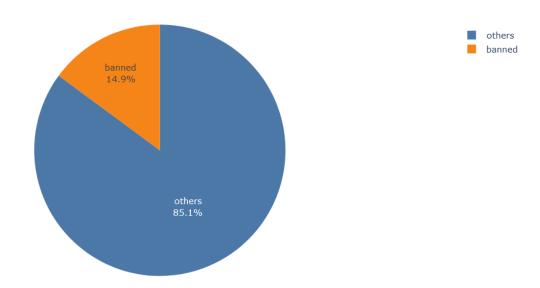
	created_at	n_contributions
26	2020-02-04	652
24	2020-02-02	598
30	2020-02-08	418
29	2020-02-07	350
27	2020-02-05	341
31	2020-02-09	338
292	2020-11-07	300
331	2020-12-16	294
28	2020-02-06	246
112	2020-05-04	235

The number of banned users contributions on peak dates



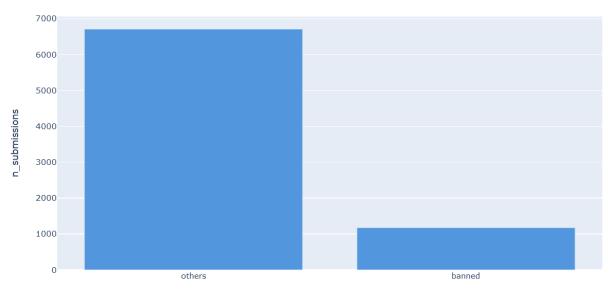
Submissions of Banned accounts in 2020

Submissions of Banned accounts in 2020



- The percentage % of 2020 submissions made by Banned accounts: 14.91
- Total banned accounts submissions in 2020: 1175

Submissions of Banned accounts in 2020



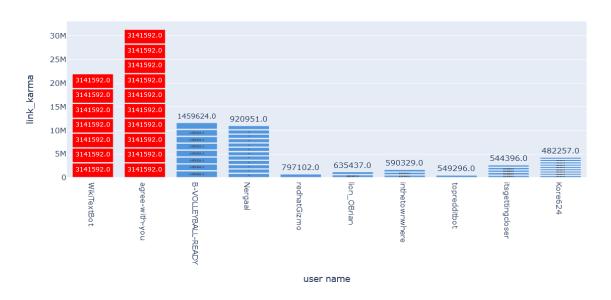
NOTE: "armpit-lover": this user made 20 contributions with the same text in those subreddits

- **"rodrigohernandez4477"**: this user made 25 contributions with the same text in
 - 2020-12-05 (13) in 20 minutes.
 - 2020-11-28 (12) in 13 minutes.

Unverified Accounts

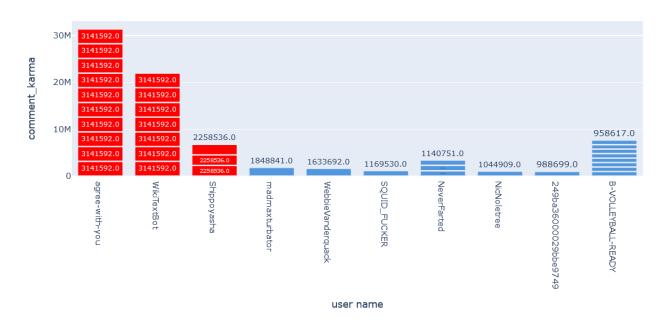
Unverified Accounts With The Largest Link Karma

Unverified accounts with highest link karma



Unverified Accounts With The Largest Comment Karma

Unverified accounts with highest comment karma

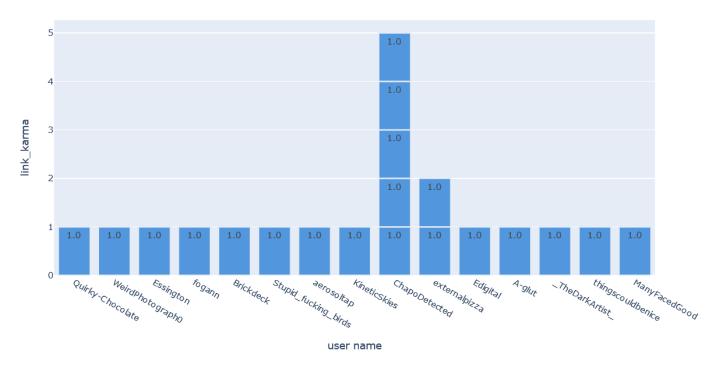


- agree-with -you is banned and unverified
 - Account Created at: 2018-03-11
 - All comments created in february except two comments from 10 (in july and august)
 - 27968 2020-02-02 13:35:15
 - 27969 2020-02-02 17:48:25
 - 27970 2020-02-02 18:38:52

- 27971 2020-02-03 13:10:12
- 27972 2020-02-04 20:17:08
- 27973 2020-02-05 15:41:16
- 27974 2020-02-09 10:01:35
- 27975 2020-02-13 12:08:43
- 27976 2020-07-03 06:54:37
- 27977 2020-08-13 09:31:14

Unverified Accounts With The Minimum Link Karma

Unverified accounts with minimum link karma



Unverified Accounts With The Minimum Comment Karma

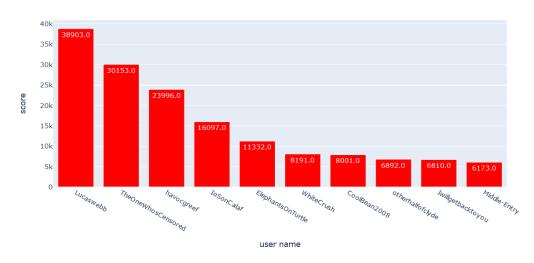
user name dickless-rodney Coagulate rMemesMods jesseboop 0 -200 -400 -600 comment karma -800 -1000 -100.0 -1200-1400 -1600

Unverified accounts with minimum comment karma

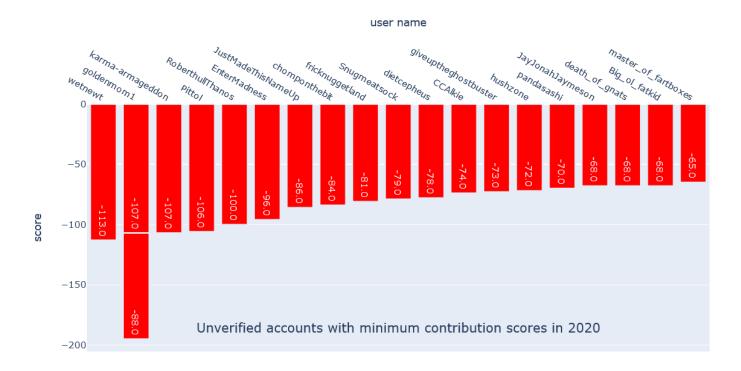
Explore the largest scores

17043.000000 count 23.014258 mean 473.097606 std -113.000000 min 25% 1.000000 50% 2.000000 75% 6.000000 38903.000000 max

Unverified accounts with highest contribution scores in 2020

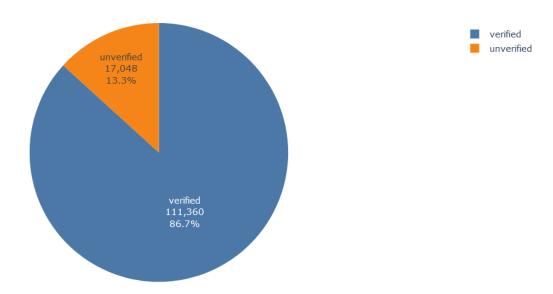


Explore the minimum scores



Contributions of Unverified accounts in 2020

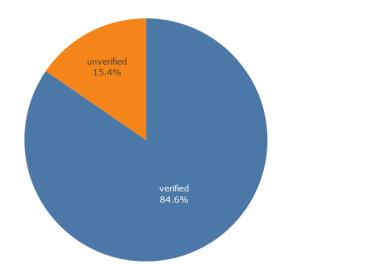
Contributions of Unverified accounts in 2020



- The percentage % of 2020 contributions made by Unverified accounts: 13.27.
- Total unverified accounts contributions in 2020: 17048

Peak day contributions (04-02-2020)

Contributions of Unverified accounts on peak day (04-02-2020)



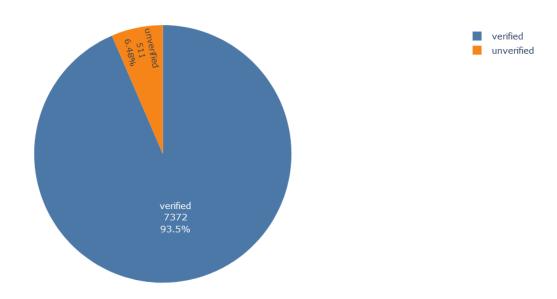
Comments

- Total banned accounts comments in 2020: 16537.

verified unverified

Submissions

Submissions of Unverified accounts in 2020



- The percentage % of 2020 submissions made by Unverified accounts: **6.48.**
- Total unverified accounts submissions in 2020: 511.

NOTE: user Boiledboxers1 made 5 submissions in "2020-03-28" in just seconds? Maybe a bot?

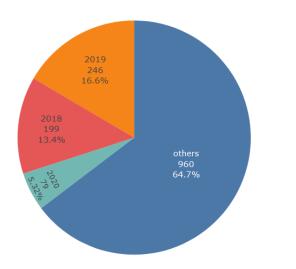
Boiledboxers1 False False False False 0.0 1.0 2020-03-19 13:59:38	unverified 2020	8.0
user_name user_created_at submission_comment	created_at	
86525 baronzemo168 2018-08-12 07:46:57 submission	2020-05-31 13:26:26	
86532 baronzemo168 2018-08-12 07:46:57 submission	2020-05-31 14:56:38	
86533 baronzemo168 2018-08-12 07:46:57 submission	2020-05-31 17:17:35	
86541 baronzemo168 2018-08-12 07:46:57 submission	2020-06-29 15:46:37	
86542 baronzemo168 2018-08-12 07:46:57 submission	2020-07-01 10:32:55	

- user baronzemo168 made 5 submissions, 3 of them made in "2020-05-31".

Creation years of the unverified accounts contributed in 2020

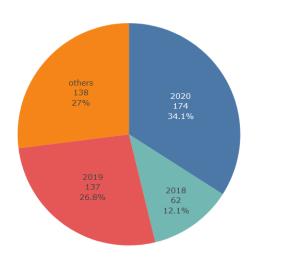
Contributions

Contributions of unverified accounts on the peak day (2020-02-04)



Submissions

Submissions of Unverified accounts in 2020



- Unverified Accounts made 6 submissions on the beak day 04/02/2020.

others
2019
2018

2020

1400
1200
800
400
200
Jan 2020 Mar 2020 May 2020 Jul 2020 Sep 2020 Nov 2020

created_at

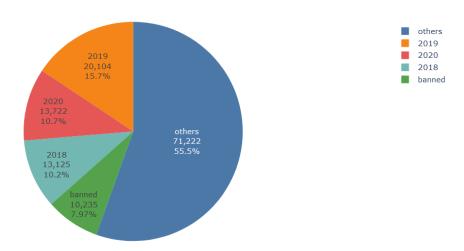
The number of contributions by users with unverified mails

The number of unverified users contributions on peak dates

	created_at	n_contributions
23	2020-02-02	793
25	2020-02-04	1484
29	2020-02-08	920
30	2020-02-09	718
295	2020-11-07	720

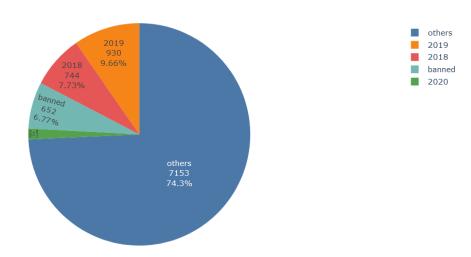
New Vs Others

Contributions of newly created accounts in 2020



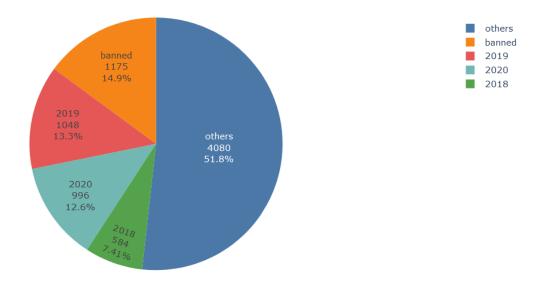
NOTE: More than 44% of 2020 Contributions were made on duration between 2018 and 2020.

Contributions of newly created accounts on the peak day (2020-02-04)



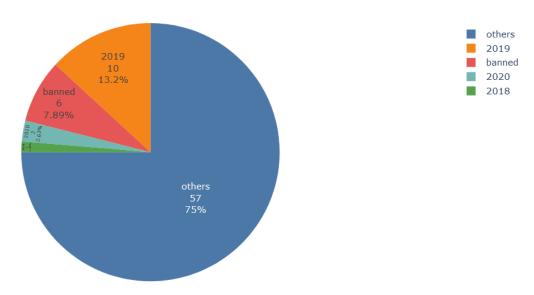
About 60% of 2020 Contributions were made by newly created accounts (last 4 years)

Submissions of newly created accounts in 2020



NOTE: About 65% of 2020 Submissions were made by newly created accounts (last 4 years)

Submissions of newly created accounts on the peak day (2020-02-04)



NOTE: We only have 76 submissions on peak day with about 9554 comments and replies

New Accounts

NOTE:

- Total contributions in 2020 made by newly created accounts(last 3 years): 46951.
- The percentage % of 2020 contributions made by newly created accounts(last 3 years): 36.56.
- Total comments in 2020 made by newly created accounts(last 3 years): 44323.
- Total submissions in 2020 made by newly created accounts(last 3 years): 2628.
- The percentage % of 2020 submissions made by newly created accounts(last 3 years): 33.34

2018 accounts

- Contributions

- Total contributions in 2020 made by newly created accounts(2018): 13125
- The percentage % of 2020 contributions made by newly created accounts(2018): 10.22

Submissions

- Total submissions in 2020 made by newly created accounts(2018): 584
- The percentage % of 2020 submissions made by newly created accounts(2018): 7

- Comments

- Total comments in 2020 made by newly created accounts(2018): 12541

2019 accounts

- Contributions

- Total contributions in 2020 made by newly created accounts(2019): 20104
- The percentage % of 2020 contributions made by newly created accounts(2019): 15.66

- Submissions

- Total submissions in 2020 made by newly created accounts(2019): 1048
- The percentage % of 2020 submissions made by newly created accounts(2019): 13.29

- Comments

- Total comments in 2020 made by newly created accounts(2019): 19056

2020 accounts

- Contributions

- Total contributions in 2020 made by newly created accounts(2020): 13722
- The percentage % of 2020 contributions made by newly created accounts(2020): 10.69

- Submissions

- Total submissions in 2020 made by newly created accounts(2020): 996
- The percentage % of 2020 submissions made by newly created accounts(2020): 12.63

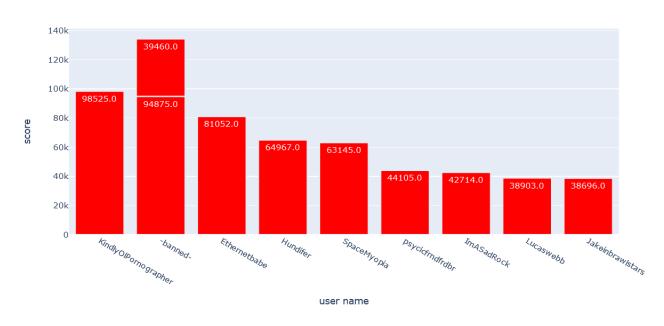
Comments

- Total comments in 2020 made by newly created accounts(2020): 12726

2020 Contributions Scores

-	count	128358
-	mean	29.53
-	std	704.11
-	min	-541
-	25%	1
-	50%	2
-	75%	6
-	max	98525

Accounts with highest contribution scores in 2020



The red bars indicates banned accounts

KindlyOlPornographer

- Created on 2019-07-27
- Has only 30 negative submissions in 2020 (4 Feb) and got the highest contribution scores (98.5K)
- audio_of_amber_heard_admitting_she_was_the_one



Fantastic_Bat

- Created on 2019-05-02
- Has the minimum contribution scores in 2020

Conclusions

Banned / Unverified Accounts

- About 20% of 2020 contributions were made by banned (7.97% --> 10235) and unverified (13.3% --> 17048) accounts.
- About 20% of 2020 submissions were made by banned (14.9% --> 1175) and unverified (6.48% -> 511) accounts.
- 22.17% of the peak day contributions (04/02/2020) were made by banned (6.77% --> 652 and unverified (15.4% --> 1484) accounts.
- 20% of submissions of the peak day submissions (04/02/2020) were made by banned accounts(14.9% --> 1175) and unverified accounts (6.48% --> 511).

Banned

Armpit-lover (banned)

• this user made 20 contributions with the same text

```
o r/CelebrityArmpits 13
o r/celebnsfw 7
o r/Celebhub 1
o r/goddesses 1
o r/Celebs 1
o r/JerkOffToCelebs 1
```

In those dates:

```
0 2020-07-03
0 2020-07-05
               3
0 2020-09-03
               3
0 2020-07-02
               3
0 2020-07-04
               1
0 2020-08-12
               1
0 2020-07-15
               1
0 2020-08-19
               1
0 2020-06-27
               1
0 2020-07-22
               1
0 2020-08-02
               1
0 2020-10-08
0 2020-07-29
               1
0 2020-08-13
0 2020-06-26
```

rodrigohernandez4477 (banned)

- This user made 25 contributions with the same text in 25
 - o 2020-12-05 (13) in 20 minutes.
 - o 2020-11-28 (12) in 13 minutes.

cracksniffer666 (banned)

- This user's contributions got the highest scores.
- The highest score is (36.8K)
- (Since this user is banned, we have no user information)
- This user made 99 contributions (98 comments and only one submission).
- 89 contributions from 99 were made at (10 Feb 2020)!

WouldYouKindley88 (banned)

- This user contributions got the minimum scores.
- This user made 37 contributions, all of them are comments.

hecubus452 (banned)

- This user made 6 contributions (2 submissions and 4 comments).
- All contributions have negative scores.
- 5 contributions were made at 2020-02-07

Unverified

Unverified Accounts Contributions in 2020

Accounts Creation Year	n_contributions
2020	10.7% (13722)
2019	15.7% (20104)
2018	10.2% (13125)
banned	7.97% (10235)
others	55.5% (71222)

Accounts Creation Year	n_contributions
2020	12.6% (996)
2019	13.3% (1048)
2018	7.41% (584)
banned	14.9% (1175)
others	51.8% (4080)

KindlyOlPornographer

- Created on 2019-07-27
- Has only 30 negative submissions in 2020 (4 Feb) and got the highest contribution scores (98.5K)
- audio_of_amber_heard_admitting_she_was_the_one

Fantastic_Bat

- Created on 2019-05-02
- Has the minimum contribution scores in 2020
- Samples of contributions:
 - Nobody's seriously going to praise Rowling right now for anything. She sided with a man accused of abusing a woman, she sided with a transphobe, she still has a problem with LGBTQ representation, PoC representation, cultural appropriation. . . The list goes on and on.
 - Except that when women lie about abuse, they're saying it's not happening, rather than that it is happening, and they're doing it out of a desire to protect their abuser, even at the expense of their own lives.
 - Men *aren't* the victims of domestic violence, though. They're the *perpetrators*.

 - We have Heard's testimony, and that video of him getting drunk and being abusive toward her.
 - She wasn't, though. She sided with an abuser against his victim. She didn't do the right thing, she engaged in victim blaming, much like this thread is doing now.
 - Standing behind a wife beater is never the right thing to do.
 - Where's the proof he was falsely accused? This video doesn't prove he didn't abuse her, only that she at one point hit him.